

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
30 June 2005 (30.06.2005)

PCT

(10) International Publication Number
WO 2005/059931 A1

(51) International Patent Classification:
4/30, 4/38, H01B 17/50, 17/54

H01G 4/224

(74) Agent: ABB AB; Legal & Compliance/Intellectual Prop-
erty, S-SE-721 78 VÄSTERÅS (SE).

(21) International Application Number:

PCT/SE2004/001923

(22) International Filing Date:

17 December 2004 (17.12.2004)

(25) Filing Language:

Swedish

(26) Publication Language:

English

(30) Priority Data:

0303482-4

19 December 2003 (19.12.2003) SE

(71) Applicant (for all designated States except US): ABB
Technology Ltd [CH/CH]; Affolternstrasse 44, CH-8050
ZÜRICH (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): DRUGGE, Birger
[SE/SE]; Ringelbäcksgatan 2, S-SE-722 16 VÄSTERÅS
(SE). MOOD, Johan [SE/SE]; Bruksgatan 3 D, S-SE-771
31 LUDVIKA (SE). DOWLING, Kenneth [SE/SE];
Säbyholms Gärd, S-SE-197 91 BRO (SE). LAIHO-
NEN, Sari [SE/SE]; Föreningsgatan 20 A, S-SE-722
18 VÄSTERÅS (SE). OLSSON, Carl-Olof [SE/SE];
Karlsgatan 32 B, S-SE-722 14 VÄSTERÅS (SE). HOLM-
GREN, Tommy [SE/SE]; Körsbärstigen 3, S-SE-771 43
LUDVIKA (SE).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HN, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

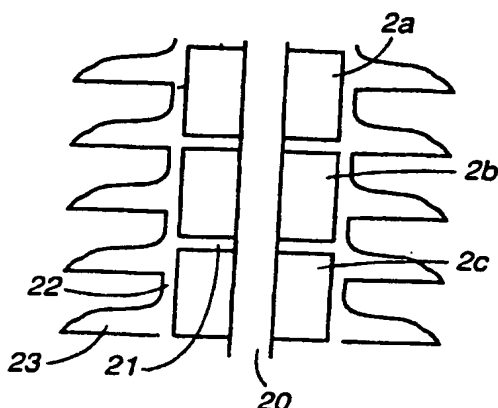
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: POWER CAPACITOR



(57) Abstract: A power capacitor comprising at least one
capacitor element (2a-2d) enclosed in a container (1, 22-22c),
wherein the container is of a material which substantially
comprises a first polymer material. Further, the container
is cylindrical and provided in its surface with creepage
distance-extending protrusions (23-23c) of a second polymer
material. The protrusions are formed with respect to their
thickness and radial length so as to cool the capacitor. In
a method for manufacturing such a power capacitor, a
substantially cylindrical container is made of a material which
substantially comprises a first polymer material. The container
(1, 22-22c) is provided on its envelope surface with creepage
distance-extending protrusions (23-23c) of a second polymer
material and the capacitor elements are encapsulated in the
container.

WO 2005/059931 A1

BEST AVAILABLE COPY